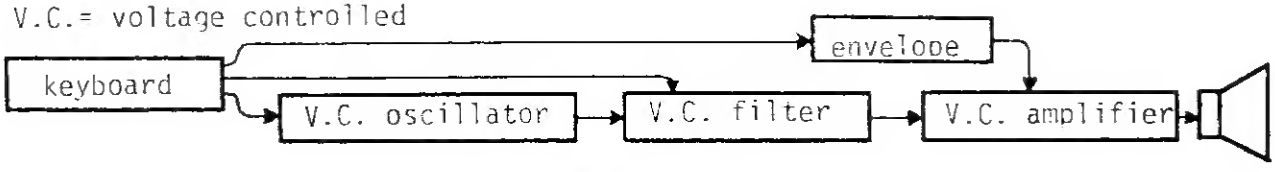
electronic music
laboratories, inc.
P.O. Box H, Vernon, Connecticut 06066 Tel: (203) 875-0751
OUT OF STATE DIAL TOLL FREE — 1-800-243-7270

POLYBOX . . . . . A DYNAMITE POLYPHONIC SYNTHESIZER EXPANDER FROM EML

Polybox is probably the most exciting synthesizer development since voltage control - and what's equally exciting is that you can add Polybox's unique polyphonic capabilities to your own voltage controlled synthesizer.

POLYBOX IS A NEW CONCEPT - TAKE THE TIME TO UNDERSTAND WHAT IT DOES - AND WHAT IT CAN DO FOR YOUR MUSIC.

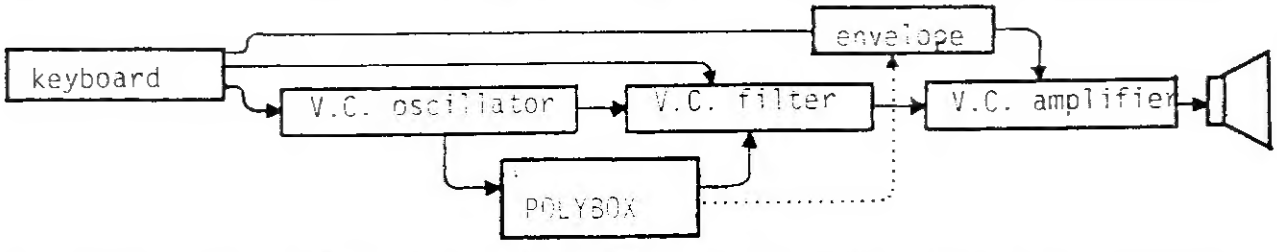
Traditional voltage controlled synthesizers (EML 101, 500, Moog Micro, Mini, model 15, Arp Axxe, Odyssey, 2600, and others) are organized in the following way:



Generally, you can play one or two keys at a time - and to play chords from a single key you must carefully tune oscillators to an interval. It's all very time consuming on the stage, it wastes money in the studio - and, it limits your music. While organ based instruments, such as the string machines are polyphonic, they lack such dramatic synthesizer features as glide, and wide vibrato and timbre possibilities.

WITH POLYBOX YOU CAN HAVE YOUR CAKE AND EAT IT TOO!

Polybox is normally added to an existing synthesizer in the following way:

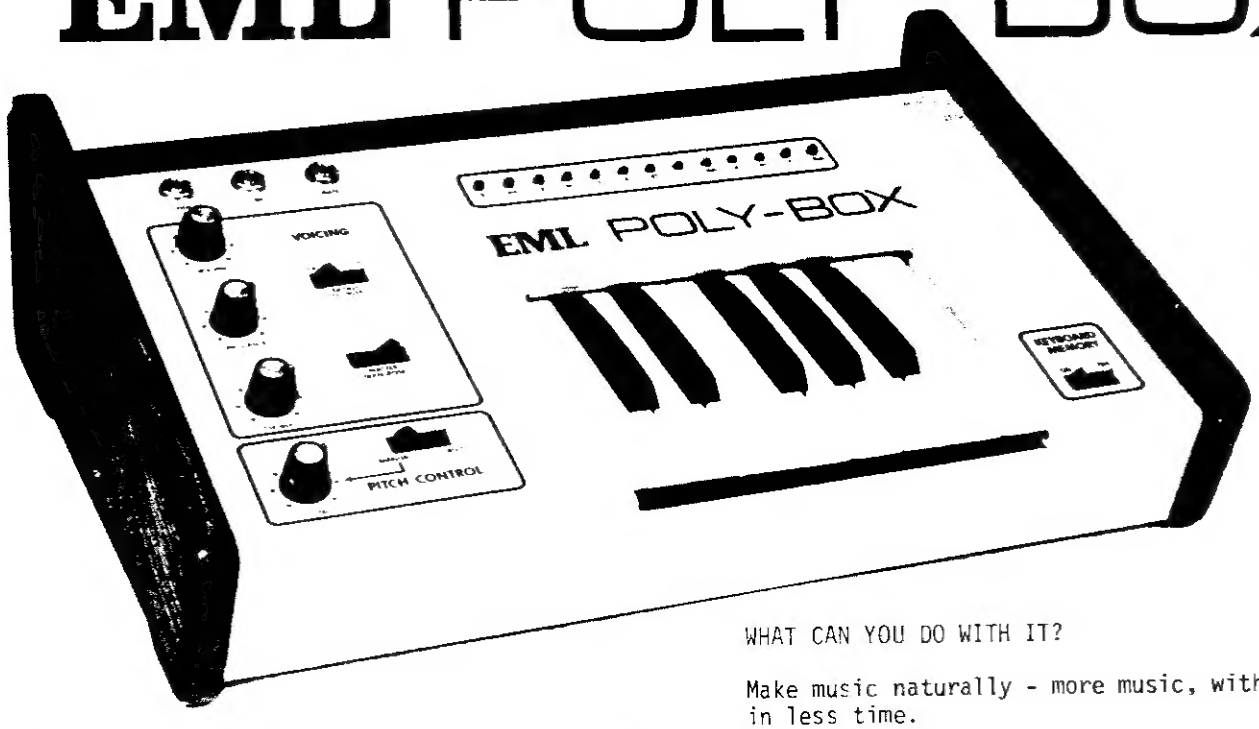


In simple terms, Polybox makes available a full octave of pitch sources at semitone intervals which precisely follow the synthesizer oscillator. Thus you can select a chord on Polybox and transpose it with your synthesizer keyboard - or simply "park" your synthesizer at some pitch and play the Polybox keyboard polyphonically. Because Polybox follows your synthesizer oscillator it will also follow pitch bends, glides, and vibrato.

WITH POLYBOX YOU'LL HAVE ALL OF THE CREATIVITY OF THE SYNTHESIZER PLUS A POLYPHONIC CAPABILITY - ALL AT MODEST COST!

(OVER)

EML POLY-BOX



$475.-

Poly-Box is a brand new synthesizer concept that puts some really exciting new musical possibilities within your reach.

ADD POLY-BOX TO YOUR SYNTHESIZER AND YOU'LL GET 26 ADDITIONAL PITCH SOURCES PLUS A UNIQUE POLYPHONIC CAPABILITY.

WHAT IS IT?

Poly-Box is a pitch following variable chord generator controlled by your synthesizer and Poly-Box's own keyboard with built-in memory. Poly-Box takes a single pitch from your synthesizer and creates two banks of pitch sources. Each pitch bank contains 13 simultaneously available pitch sources at precise semitone intervals - covering an entire chromatic octave. The pitch banks may be in the same or different octaves, and can cover the range from one above to three octaves below the synthesizer oscillator.

In automatic pitch following mode, Poly-Box locks onto the synthesizer pitch and follows it through bend, vibrato, portamento and keyboard transpositions. The pitches in each pitch bank change in parallel with the synthesizer pitch. The Poly-Box keyboard and controls are used to select which of the pitches in the pitch banks - up to 26 at one time - are passed on through the synthesizer!

Poly-Box is easy to add to your present synthesizer. It takes just 3 patchcords to use Poly-Box with any patchable synthesizer.* Your non-patchable synthesizer will need only a minor modification.**

*EML 100, EML 101, EML 200, Aries Modular, Arp 2500, 2600, Moog Modular, Oberheim, Roland 100 and 700, Steiner Parker, and others.

**With just a small adaptation, your EML 500, Synkey, Micro, Mini, Axxe, Odyssey or other non-patchable synthesizer can be made to accept the Poly-Box. Consult EML for details.

WHAT CAN YOU DO WITH IT?

Make music naturally - more music, with less hassle, in less time.

In the recording studio or on the stage, you'll get a new gutsy polyphonic sound from your synthesizer - without fussing with oscillator tracking, or lugging around expensive and finicky instruments. Poly-Box will let you get more music from your synthesizer than you thought possible.

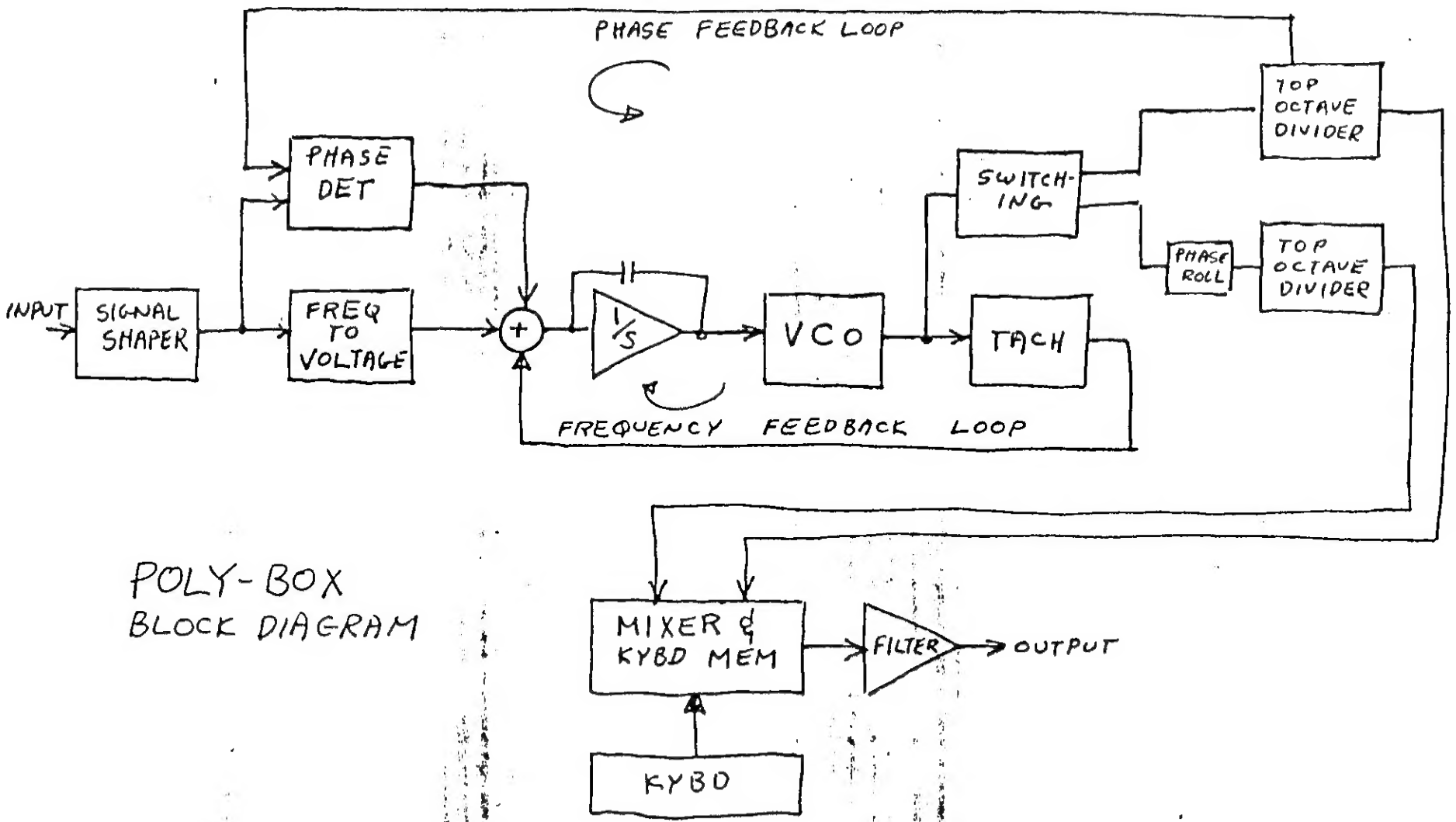
In the composition studio you'll create entirely new controllable timbres and voices. Poly-Box will plug right into any modular system. It's the most music-per-buck module you can buy.

HERE ARE A FEW SAMPLES OF WHAT YOU CAN DO.

1. Depress a key on the synthesizer and play Poly-Box polyphonically. Poly-Box will gate or trigger the synthesizer envelope(s) if desired, and will follow bends and vibratos of the synthesizer oscillator. Transpose Poly-Box by semitones or octaves with the synthesizer keyboard. Note that Poly-Box increases the effective length of your synthesizer's keyboard by one octave. With keyboard memory on, sustain is controlled by the synthesizer's envelopes. With memory off, you play stacatto.

2. Select a chord on the Poly-Box keyboard - you don't have to hold the chord - Poly-Box will remember it until the next is chosen. Now play the synthesizer keyboard. You'll be playing a parallel chord, again with all the pitch bend, portamento and vibrato effects of your synthesizer. Change chords at will. Transpose both Poly-Box pitch banks up or down by precisely an octave (it's done digitally) or use the octave coupler to transpose the second pitch bank one or two octaves below the first. You can get up to two octaves of chromatic pitches at once if you please!

3. Combine the techniques of 1 and 2 above for some really exciting music.



POLY-BOX
BLOCK DIAGRAM

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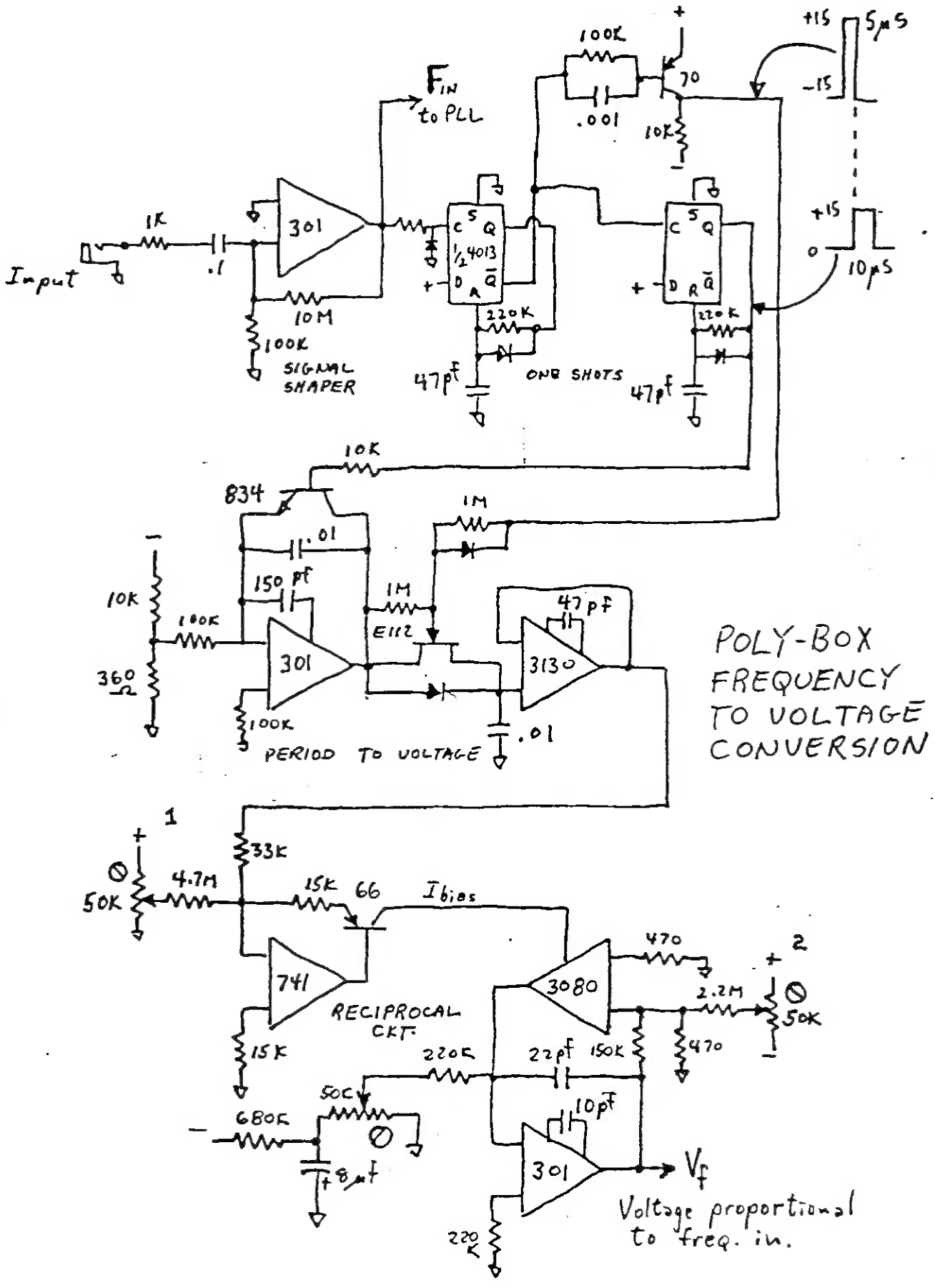

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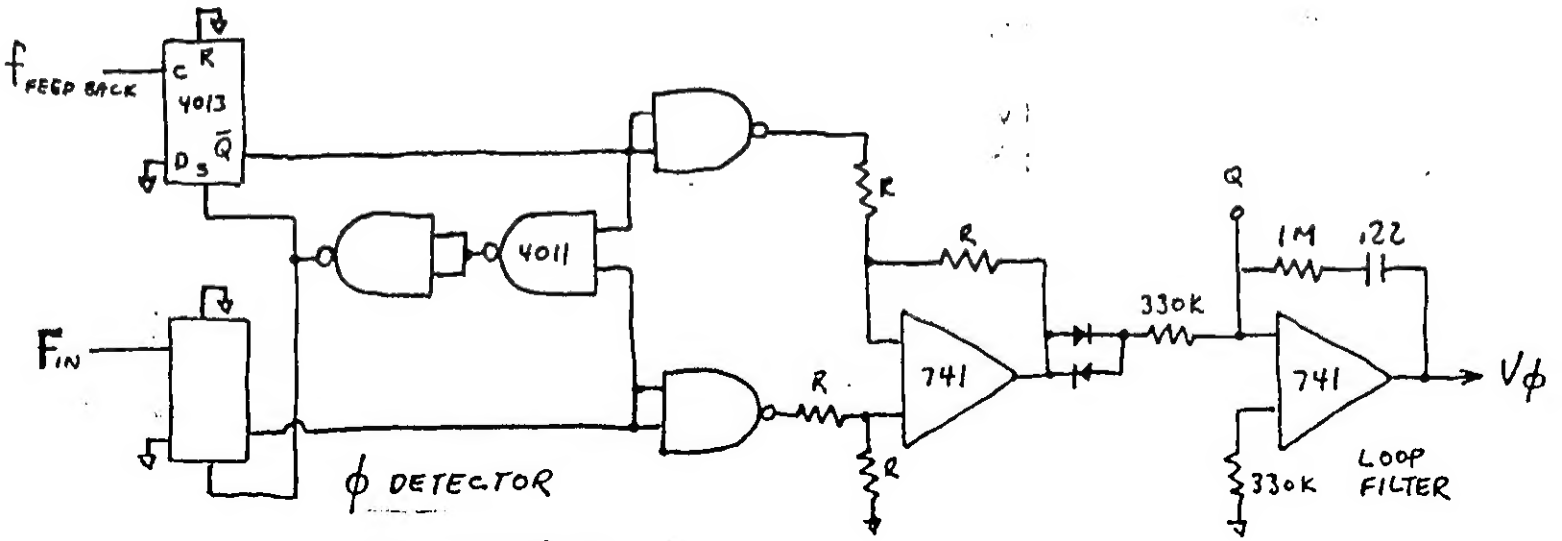
2 NOV 81

4013 NEEDS .01μF Disc

+V TO ↓ TO STOP

AUTO-TRACK "POPS"



POLY-BOX

PHASE LOCKED LOOP

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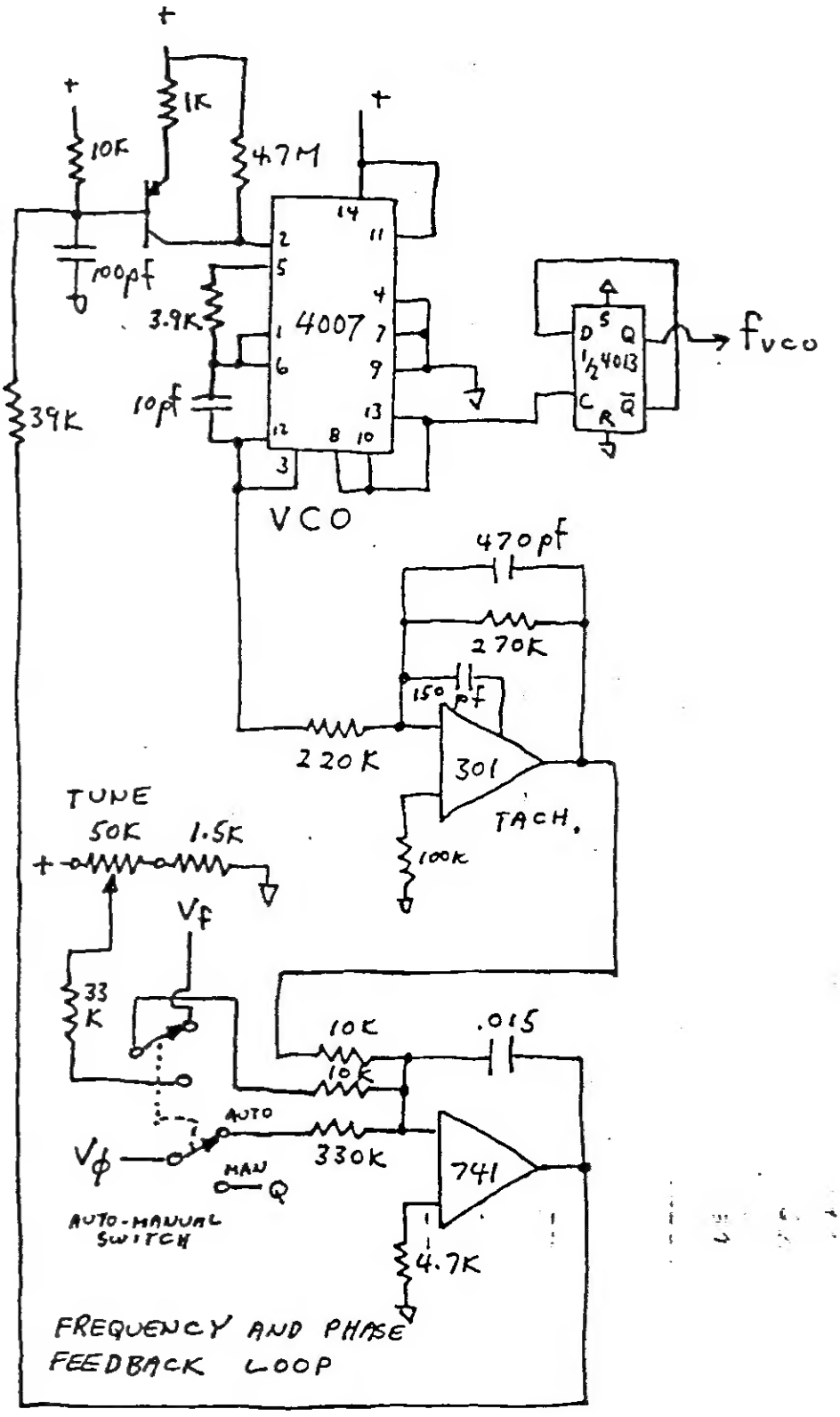

POLY-BOX VCO & SERVO LOOPS

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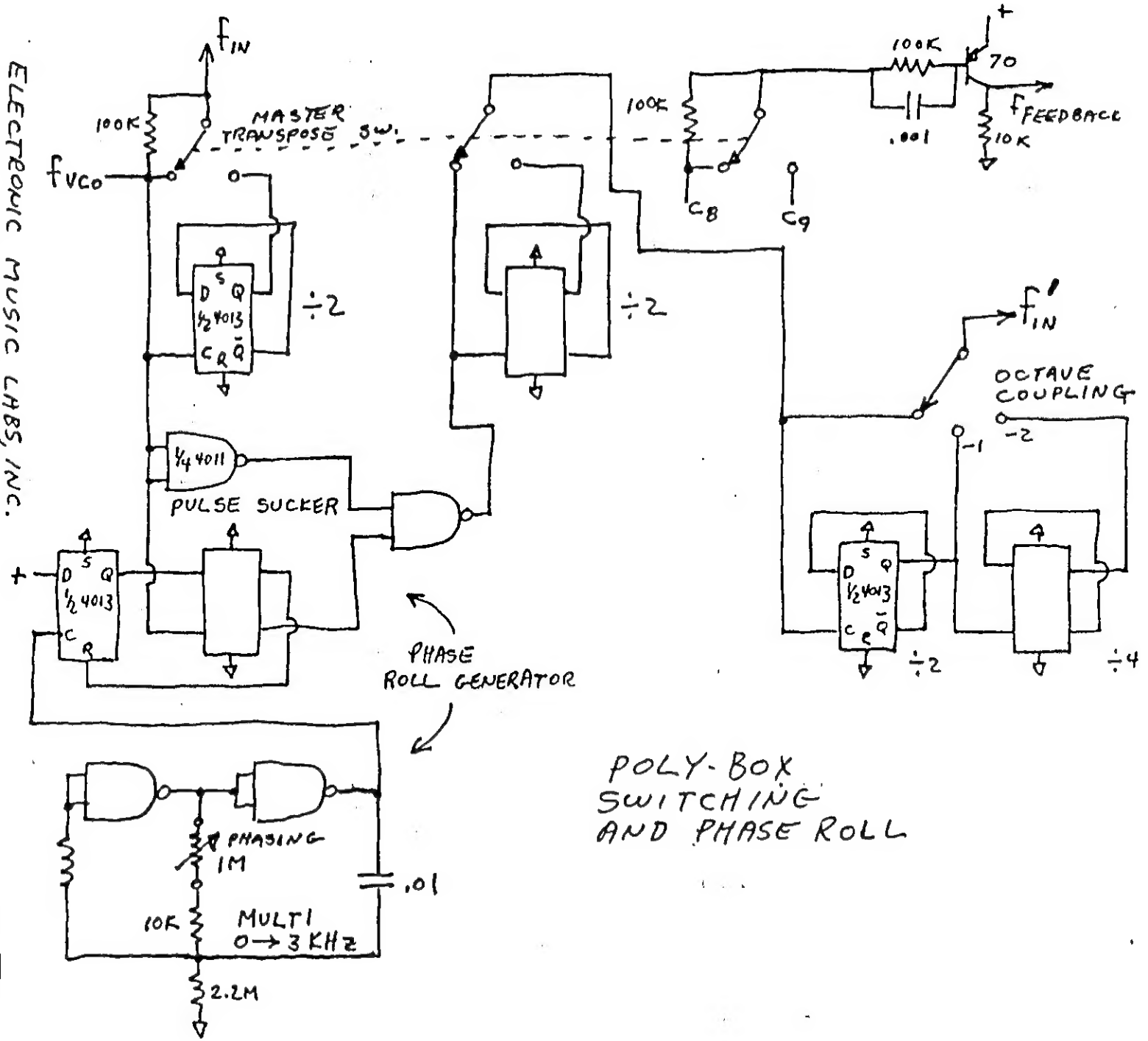

POLY-BOX SWITCHING AND PHASE ROLL

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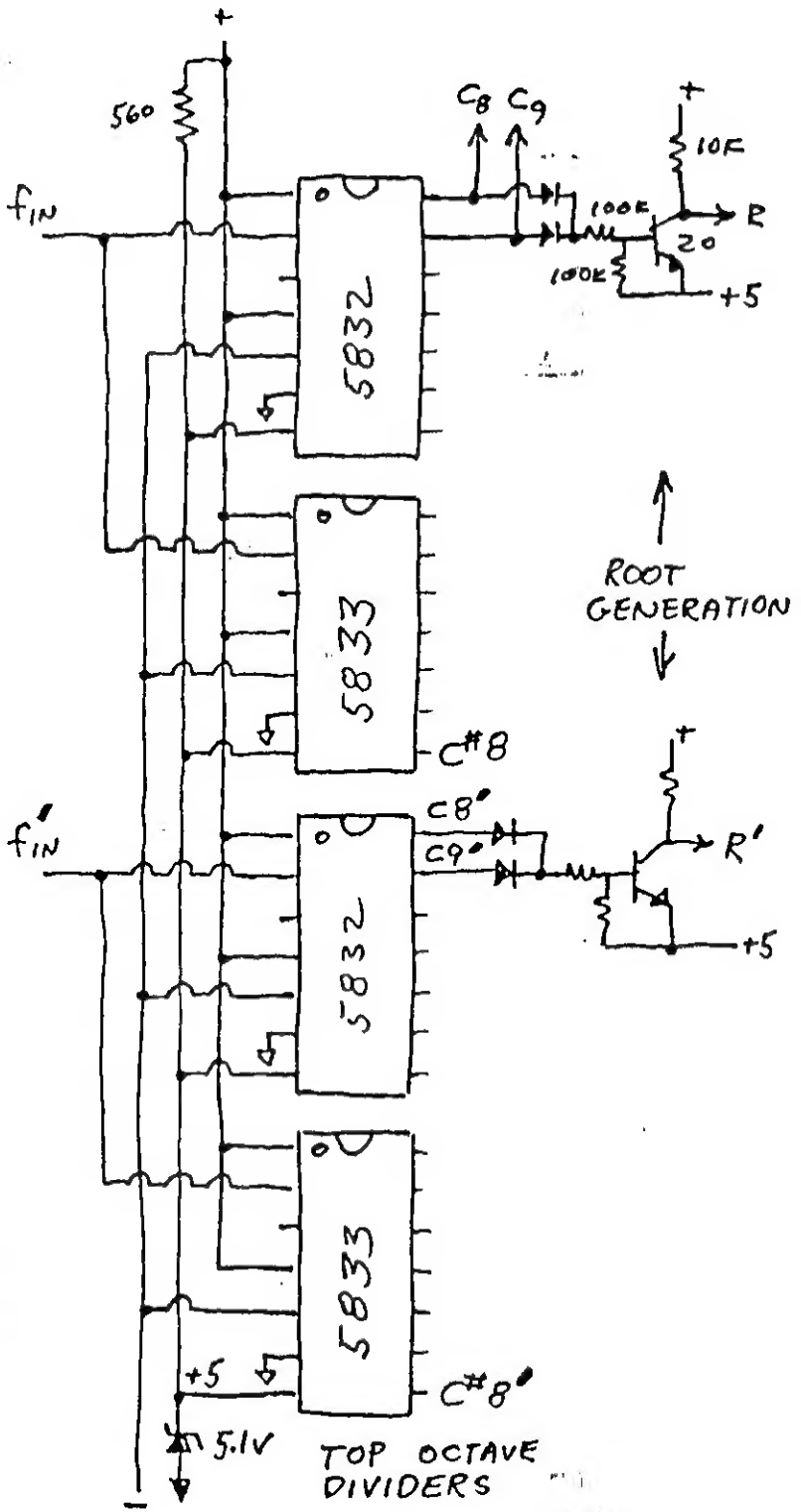
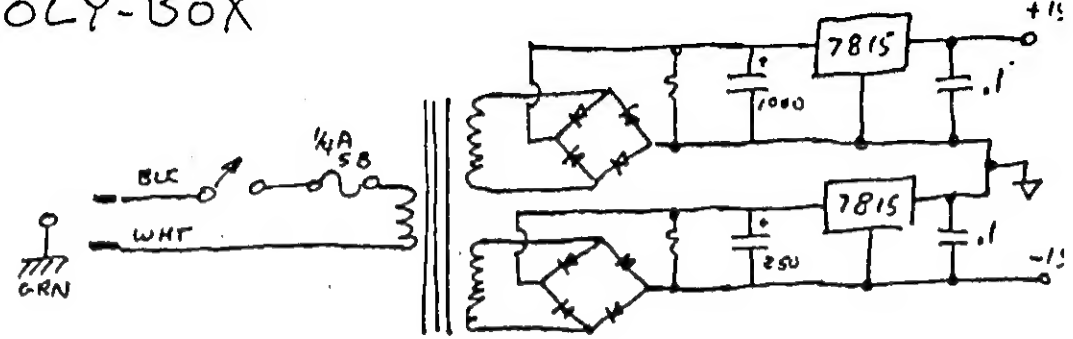
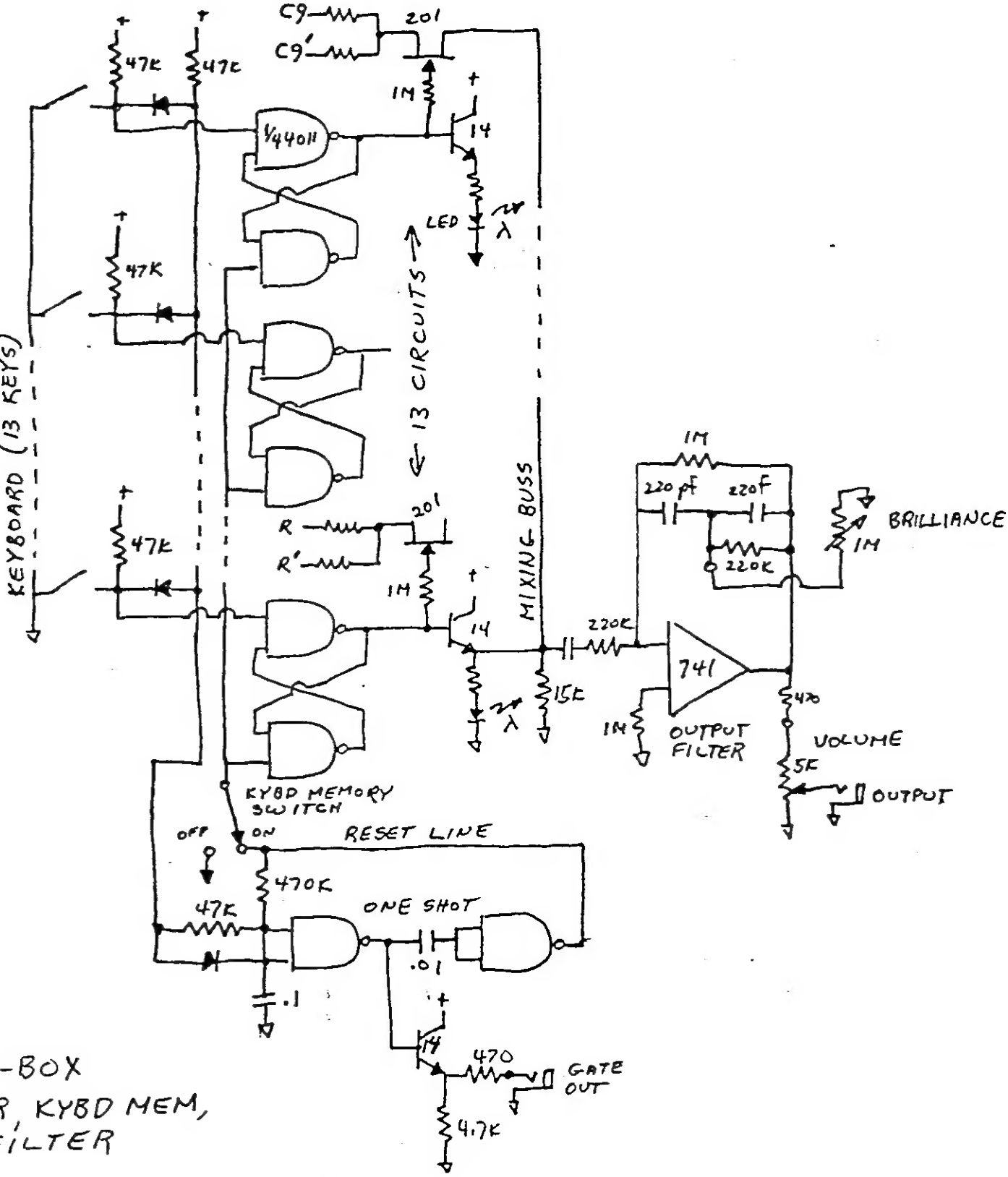


POLY-BOX



POWER SUPPLY



POLY-BOX
MIXER, KYBD MEM,
AND FILTER

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